


PROJECT	DESIGNATION
0501212	1592538 & 1592536
CONTRACT	BRIDGE FILE
R-28940	I65-052-04255 CNBL & JCSBL

INDEX				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I65-051-04255 CNBL I65-051-04255 JCSBL	BRIDGE REHABILITATION TWIN CONTINUOUS REINFORCED CONCRETE SLAB BRIDGES	3 SPANS: 21'-0", 28'-0", 21'-0" SKEW: 30°00'00" RT.	MUTTON CREEK DITCH	STA. 2286+07.09 "A"

KIN DESIGNATION NUMBERS		
PART	DESIGNATION	DESCRIPTION
1	0501212	I-65 ROAD PLANS
2	0501212	I-65 CROSS SECTIONS
3	0501212	I-65 TRAFFIC PLANS
4	1601732 & 1601733	I-65 OVER CSX RAILROAD
5	1592538 & 1592536	I-65 OVER MUTTON CREEK DITCH
6	1601840 & 1601970	I-65 OVER EAST FORK OF WHITE RIVER
7	1601841 & 1601920	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 1
8	1592568 & 1592576	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 2
9	1592575 & 1592589	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 3
10	1592590 & 1592592	I-65 OVER L & I RAILROAD
11	1592595 & 1592594	I-65 OVER ABLE DITCH
12	1592600 & 1592599	I-65 OVER SMALLS CREEK
13	1700256	ENOS ROAD OVER I-65
13	1700257	CR 800 NORTH OVER I-65
13	1700258	REDDING ROAD OVER I-65
13	1700259	SR 11 OVER I-65
13	1700260	COUNTYLINE ROAD OVER I-65
13	1700261	CR 950 SOUTH OVER I-65
13	1700262	CR 625 SOUTH OVER I-65
14	1383528 & 1383529	I-65 OVER DENOIS CREEK

INDIANA DEPARTMENT  
OF TRANSPORTATION



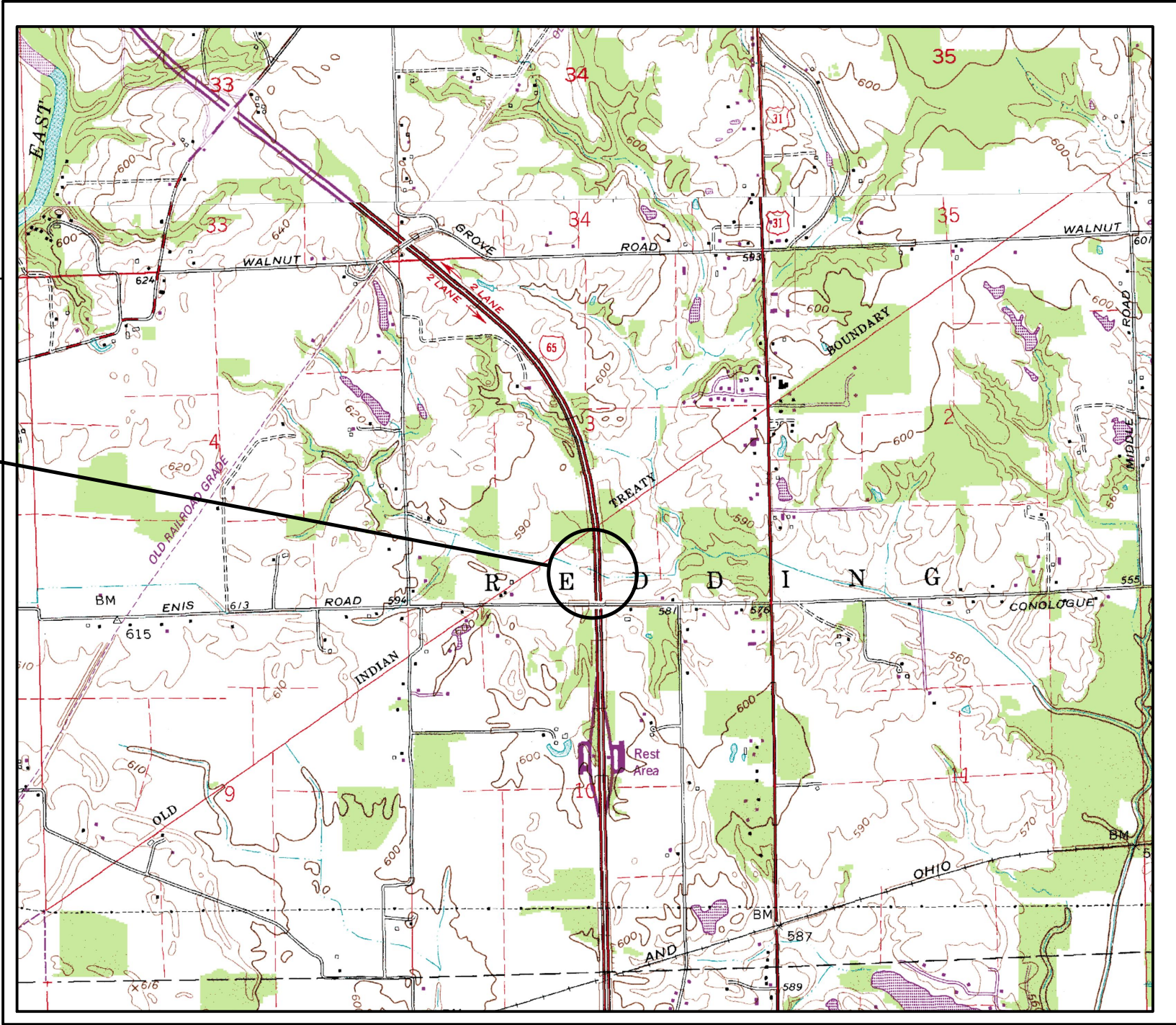
BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET  
INTERSTATE 65  
OVER  
BRANCH MUTTON CREEK DITCH

PROJECT NO. 0501212  
PROJECT NO. 0501212  
RP 51+0.372

This Bridge Rehabilitation is on Interstate 65 over Branch Mutton Creek Ditch  
Located in Section 33, of Township 7 North, Range 6 East, Redding Township,  
in Jackson County Indiana.

R. 6 E.



PROJECT LOCATION  
I65-051-04255 CNBL  
I65-051-04255 JCSBL

LOCATION MAP

TRAFFIC DATA

I-65

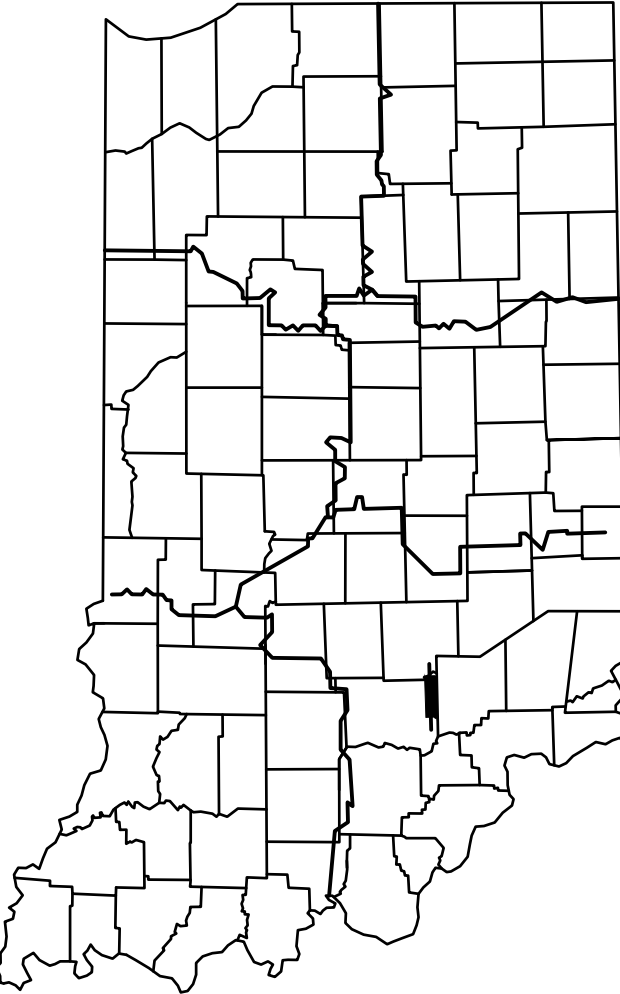
A.D.T. (2019)31,320 V.P.D.  
A.D.T. (2039)34,310 V.P.D.  
D.H.V. (2039)2,740 V.P.H.  
DIRECTIONAL DISTRIBUTION50%  
TRUCKS38% A.A.D.T.  
29% D.H.V.

DESIGN DATA

70 M.P.H.

DESIGN SPEED70 M.P.H.  
PROJECT DESIGN CRITERIAPARTIAL RECONSTRUCTION 4R (FREEWAY)  
FUNCTIONAL CLASSIFICATIONINTERSTATE  
RURAL/URBANRURAL  
TERRAINLEVEL  
ACCESS CONTROLFULL

R-28940  
Part 5 of 14




PROJECT LOCATION SHOWN BY  
JACKSON COUNTY

LATITUDE: 38°59'05.50" N    LONGITUDE: 85°50'36.21" W

BRIDGE LENGTH :0.54 MI.  
ROADWAY LENGTH :13.71 MI.  
TOTAL LENGTH :14.25 MI.  
MAX GRADE:2.8%

[INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2016 TO BE  
USED WITH THESE PLANS]



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PLANS  
PREPARED BY: UNITED CONSULTING    317-895-2585  
PHONE NUMBER

CERTIFIED BY: \_\_\_\_\_ DATE

APPROVED  
FOR LETTING: \_\_\_\_\_ DATE

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE  
I65-052-04255 CNBL & JCSBL  
DESIGNATION  
1592538 & 1592536

SURVEY BOOK	SHEETS
	1 of 10
CONTRACT	PROJECT
R-28940	0501212

File Name: p:\C3D\MK16-465\Bridge\bridges 6 & 7 - i-65 over branch mutton creek ditch\Drawings\Title 6 & 7.dwg Plot Date: 4/25/2017 Plotted By: Zola, David



	UTILITIES

GENERAL NOTES	

[illegible][illegible]

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DESIGNED: <u>MRL</u>	DRAWN: <u>DJZ</u>
CHECKED: <u>BSF</u>	CHECKED: <u>MRL</u>

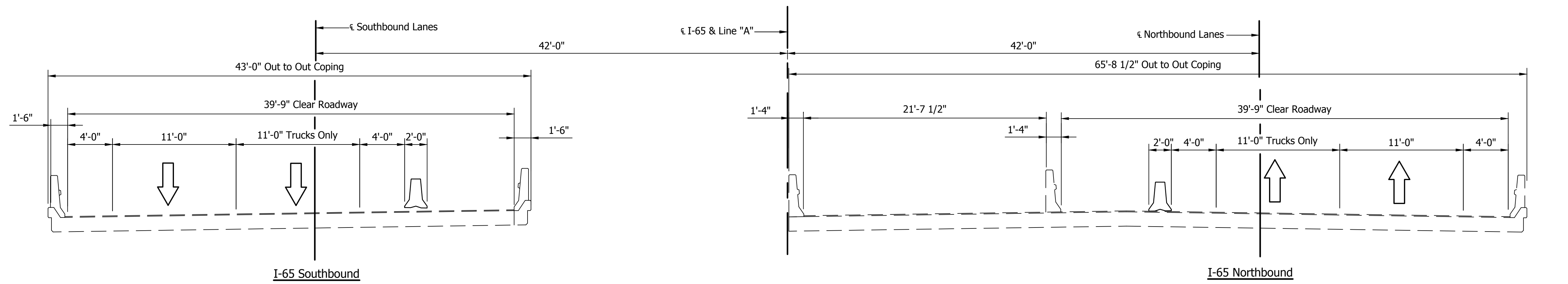
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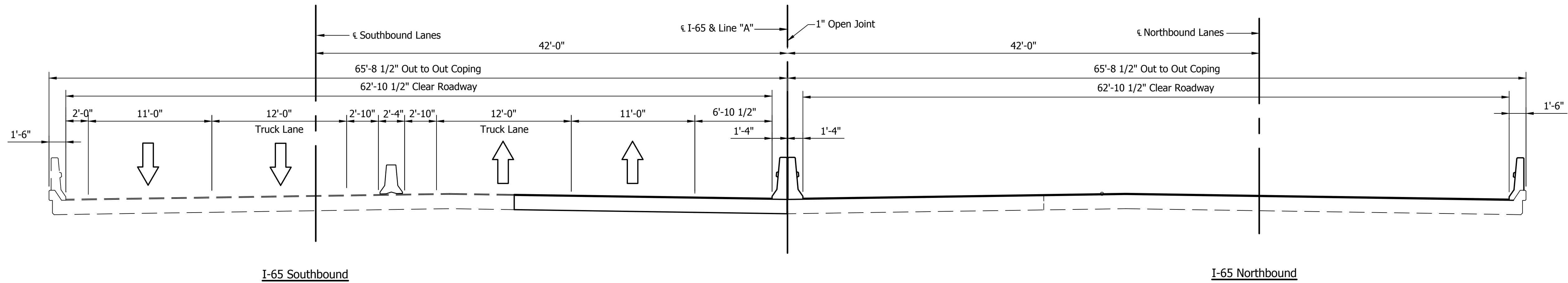
I-65 OVER BRANCH MUTTON CREEK DITCH

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-052-04255 CNBL & JCSBL
VERTICAL SCALE	DESIGNATION
N/A	1592538 & 1592536

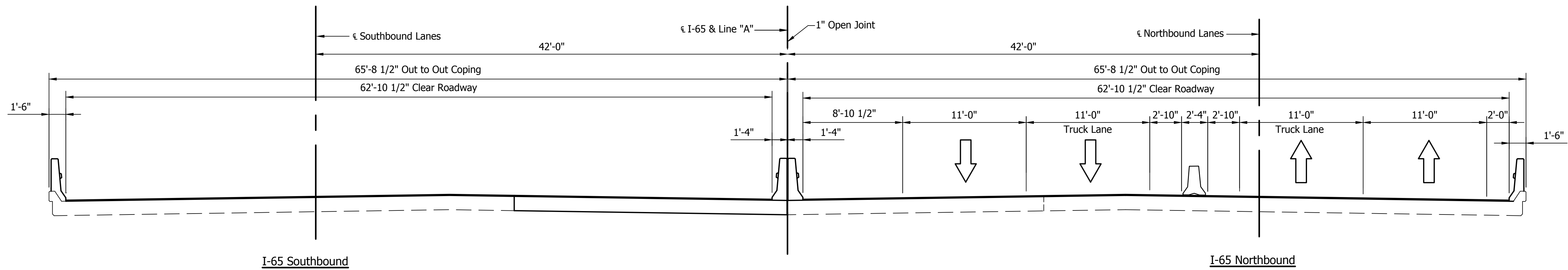
SURVEY BOOK	SHEETS		
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**PHASE 2**



**PHASE 3**



**PHASE 4**

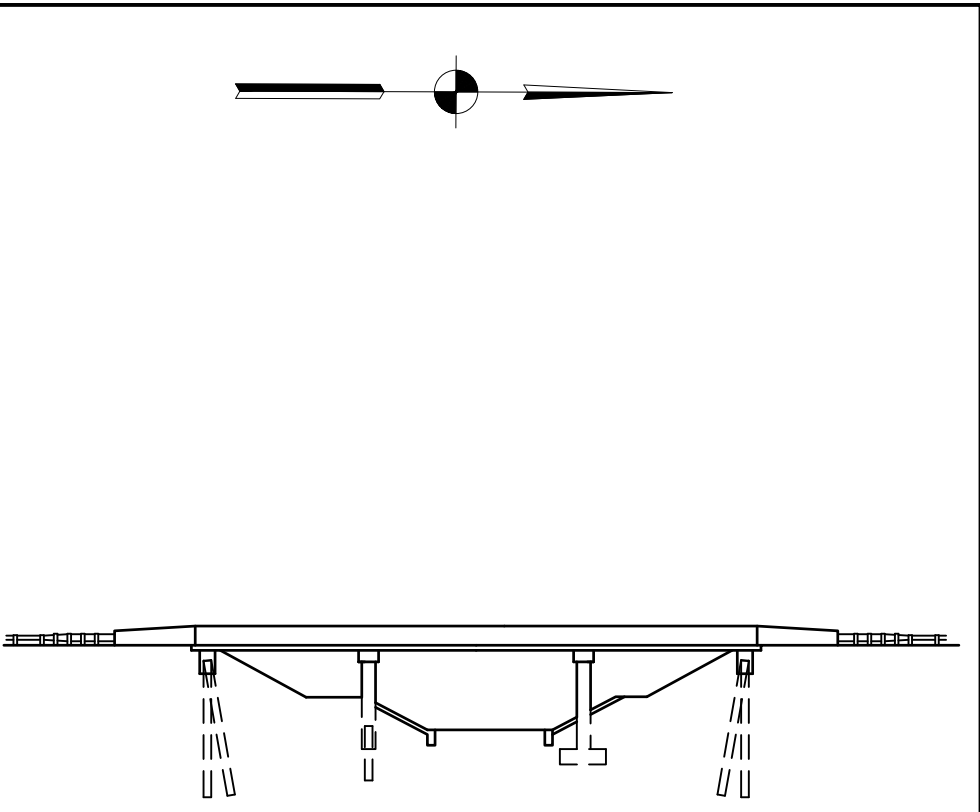
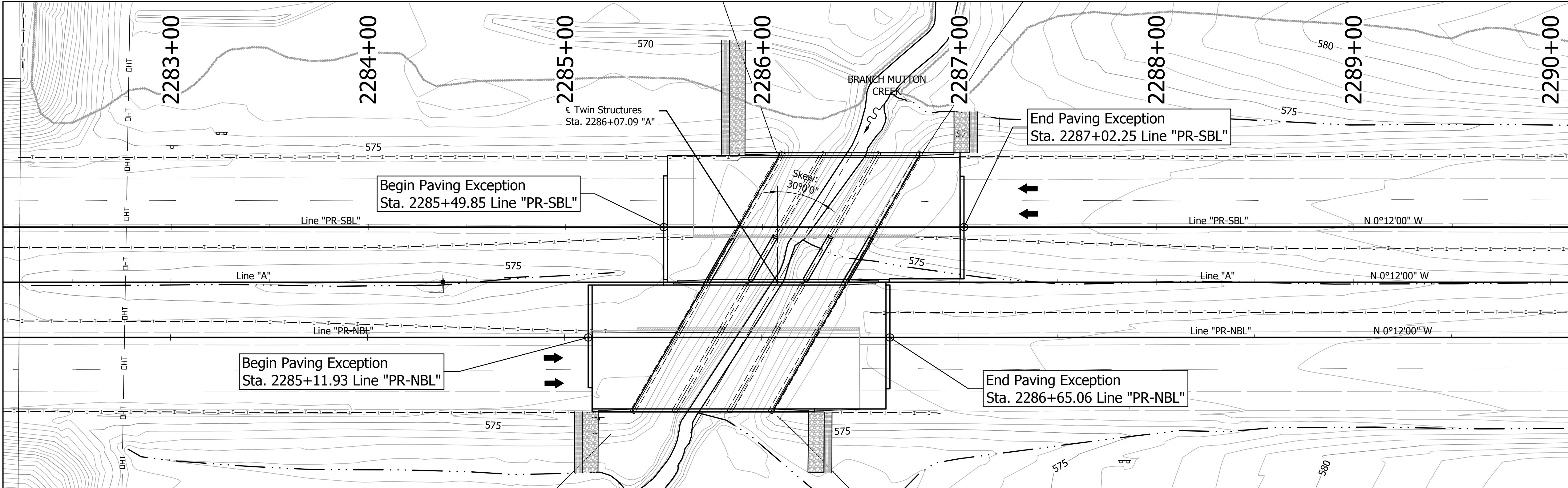


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INDIANA DEPARTMENT OF TRANSPORTATION	
MAINTENANCE OF TRAFFIC I-65 OVER BRANCH MUTTON CREEK DITCH	

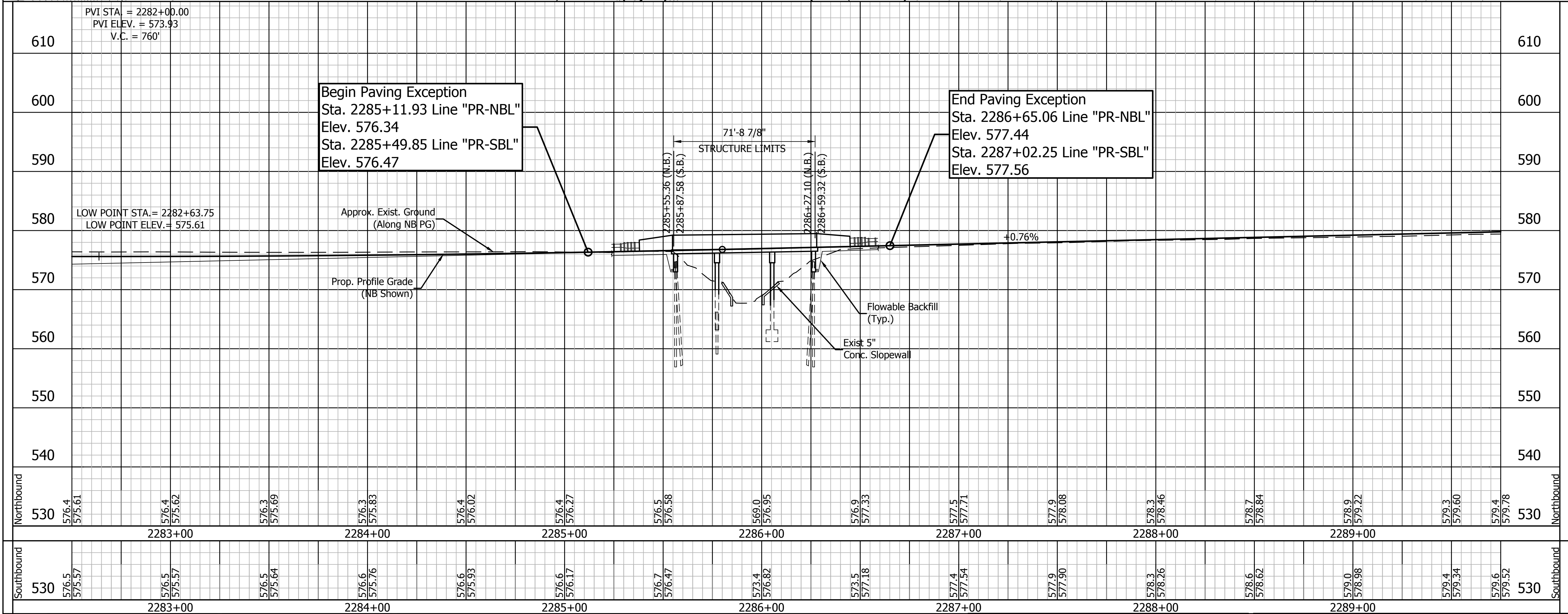
HORIZONTAL SCALE 3/16" = 1'-0"	BRIDGE FILE I65-052-04255 CNBL & JCSBL	
VERTICAL SCALE 3/16" = 1'-0"	DESIGNATION 1592538 & 1592536	
SURVEY BOOK -	SHEETS 3 of 10	
CONTRACT R-28940	PROJECT 0501212	



Existing Clear Roadway = 40'-0"  
Portions of existing End Bents, Piers, and Bridge Deck to be removed.

### EXISTING STRUCTURE

No Scale



Notes: For R/W, Earthwork Summary, and Additional Information. See Road Plans, Des. No. 0501212.

**TWIN CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE**  
3 SPANS: 21'-0", 28'-0", 21'-0"  
SKEW: 30°00'00" RIGHT  
65'-8 1/2" CLEAR ROADWAY  
I-65 OVER BRANCH MUTTON CREEK DITCH



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LAYOUT  
I-65 OVER BRANCH MUTTON CREEK DITCH

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE I65-052-04255 CNBL & JCSBL
VERTICAL SCALE 1" = 10'	DESIGNATION 1592538 & 1592536
SURVEY BOOK -	SHEETS 4 of 10
CONTRACT R-28940	PROJECT 0501212

GENERAL NOTES

- Existing plans for this structure are on file in the records unit of the Indiana Department of Transportation as Bridge File 165-051-04255 BNBL & JBSBL.
- Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field and report any discrepancies to the Engineer and assume responsibility for their correctness and fit of the new part to the old.
- Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slabs, and 2" in all other parts, unless noted.
- Surface seal all exposed surfaces of approach slabs, face of deck coping and outer 6" of the underside of deck.
- Stations shown are from the existing plans on file. The stations will be updated for the proposed alignment for Final Deign.

DESIGN DATA

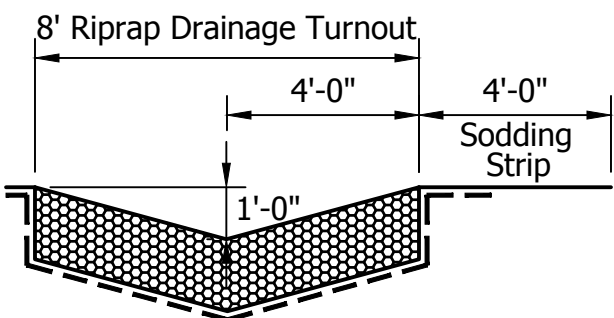
Designed for HS-20-44 loading in accordance with 2002 AASHTO Standard Specifications for Highway Bridges 17th Edition and all Subsequent Interim Specifications.

ULTIMATE DESIGN STRESSES

Class "A" Concrete	f <sub>c</sub> = 3,500 p.s.i.
Class "B" Concrete	f <sub>c</sub> = 3,000 p.s.i.
Class "C" Concrete	f <sub>c</sub> = 4,000 p.s.i.
Reinforcing Steel (Grade 60)	f <sub>y</sub> = 60,000 p.s.i.

LEGEND

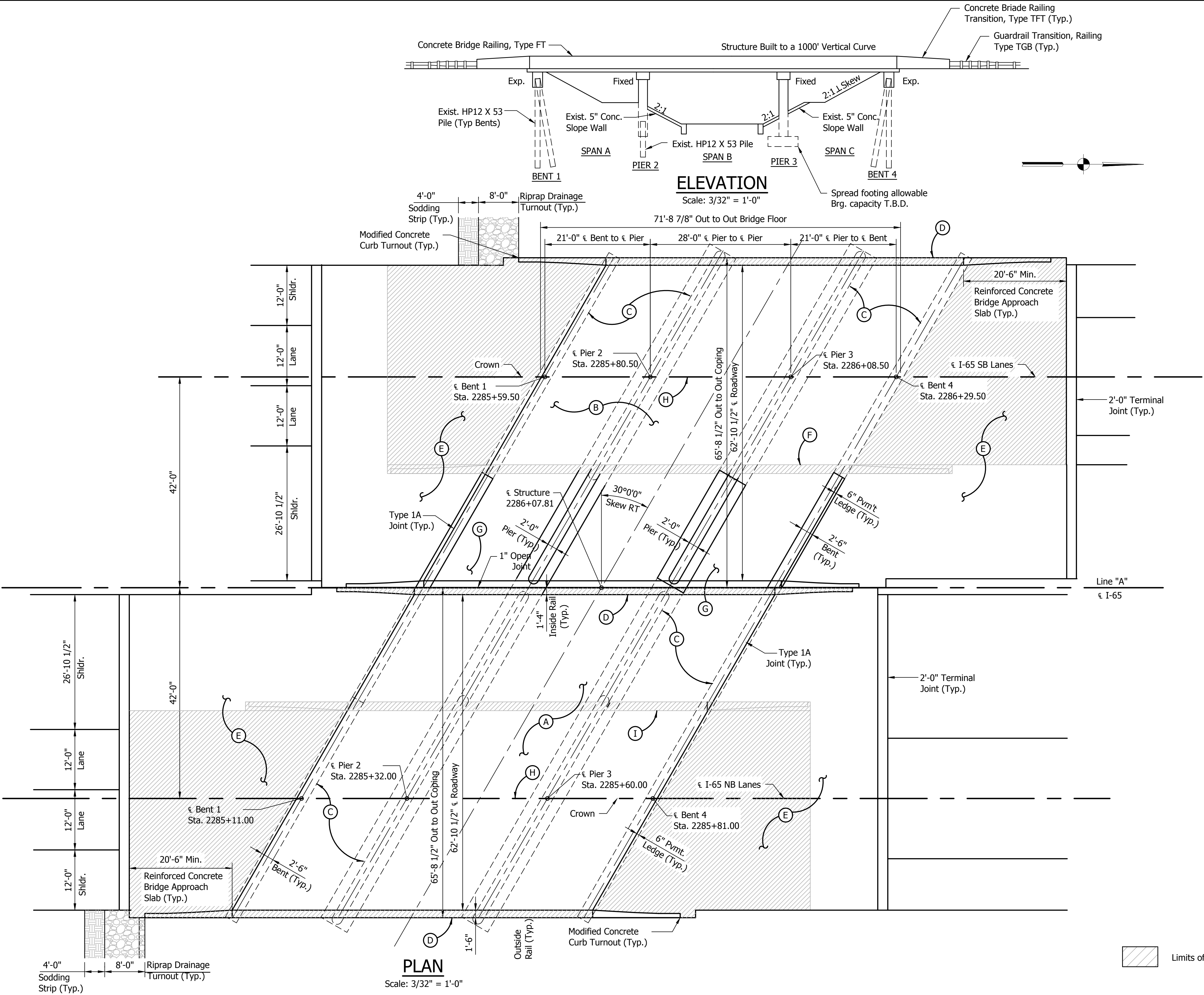
- (A) Remove the existing overlay, surface mill the existing surface and perform hydro-demolition to remove any unsound concrete, perform partial and full depth patching at all delaminated areas, and place a variable depth latex modified or microsilica concrete overlay over the entire bridge deck.
- (B) Remove the existing overlay, surface mill the existing surface and perform hydro-demolition to remove any unsound concrete, perform partial and full depth patching at all delaminated areas, widen the southbound superstructure and substructure toward the median side, and place a variable depth latex modified or microsilica concrete overlay over the entire dridge deck.
- (C) Patch piers, superstructure, and undersides of deck as necessary to repair all delamination and spalling.
- (D) Remove and replace the existing concrete bridge railing.
- (E) Remove and replace existing reinforced concrete approach slabs.
- (F) Remove existing Bridge railing and 1'-6" of the bridge coping.
- (G) Extend Riprap across median and widen 2' outside bridge deck.
- (H) Place new Snowplowable Pavement Markings.
- (I) Remove existing bridge railing and patch the bridge deck under rail locations.



RIPRAP DRAINAGE TURNOUT

No Scale

TWIN CONTINUOUS REINFORCED  
CONCRETE SLAB BRIDGE  
3 SPANS: 21'-0", 28'-0", 21'-0"  
SKEW: 30°00'00" RIGHT  
65'-8 1/2" CLEAR ROADWAY  
I-65 OVER BRANCH MUTTON CREEK DITCH



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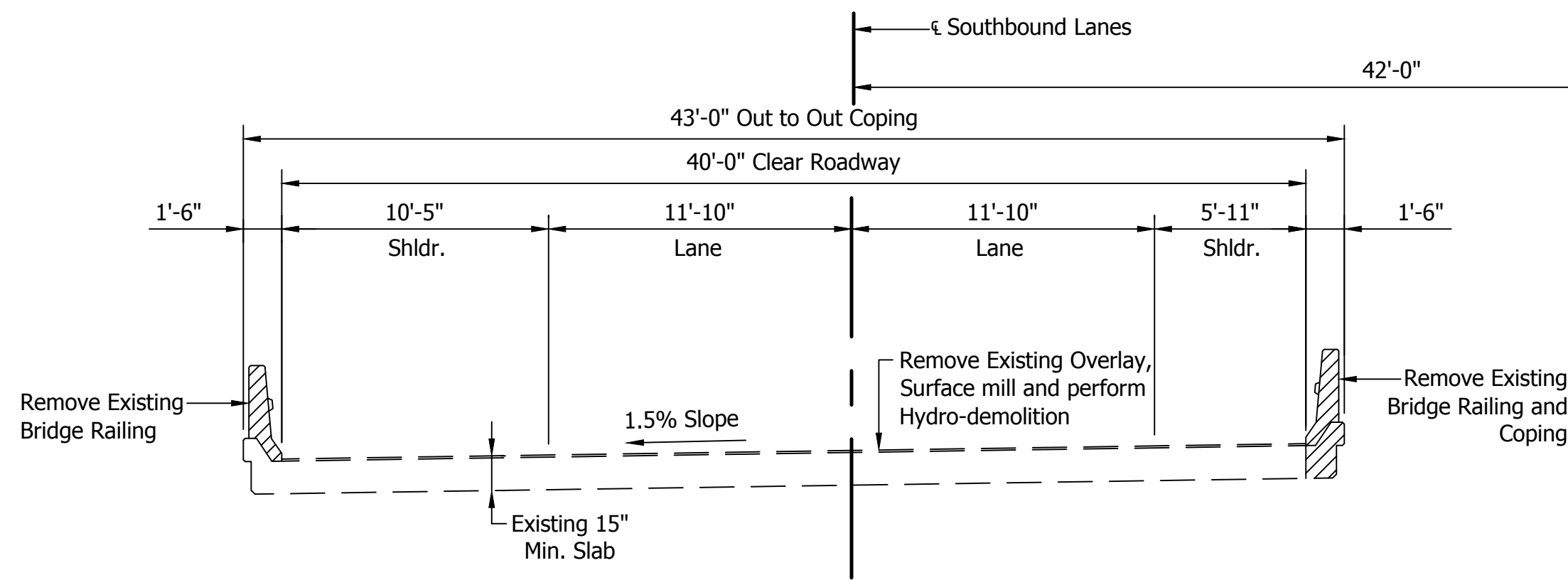
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GENERAL PLAN  
I-65 OVER BRANCH MUTTON CREEK DITCH

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	165-052-04255 CNBL & JCSBL
VERTICAL SCALE	DESIGNATION
AS SHOWN	1592538 & 1592536

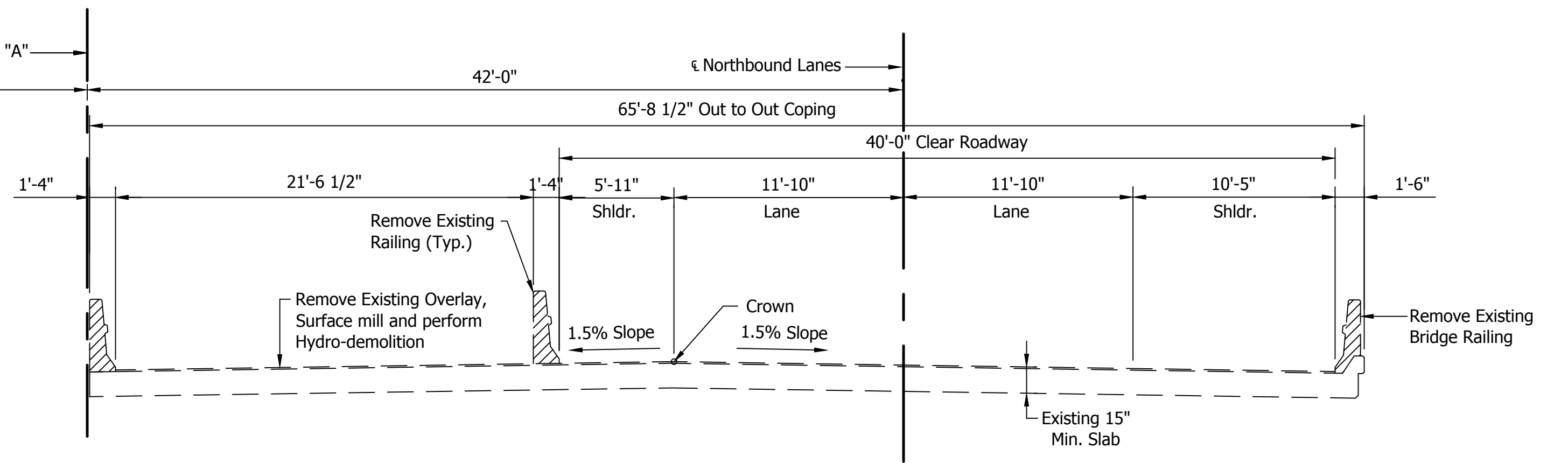
SURVEY BOOK	SHEETS
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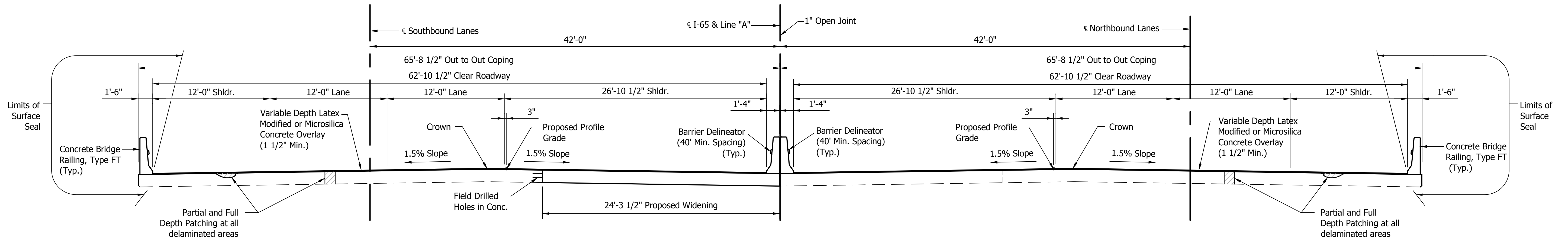
**EXISTING SOUTHBOUND TYPICAL SECTION**

Scale: 3/16" = 1'-0"



**EXISTING NORTHBOUND TYPICAL SECTION**

Scale: 3/16" = 1'-0"

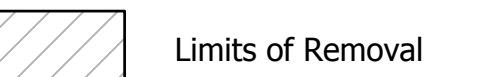


**PROPOSED SOUTHBOUND TYPICAL SECTION**

Scale: 3/16" = 1'-0"

**PROPOSED NORTHBOUND TYPICAL SECTION**

Scale: 3/16" = 1'-0"



**TWIN CONTINUOUS REINFORCED  
CONCRETE SLAB BRIDGE**  
3 SPANS: 21'-0", 28'-0", 21'-0"  
SKEW: 30°00'00" RIGHT  
65'-8 1/2" CLEAR ROADWAY  
I-65 OVER BRANCH MUTTON CREEK DITCH



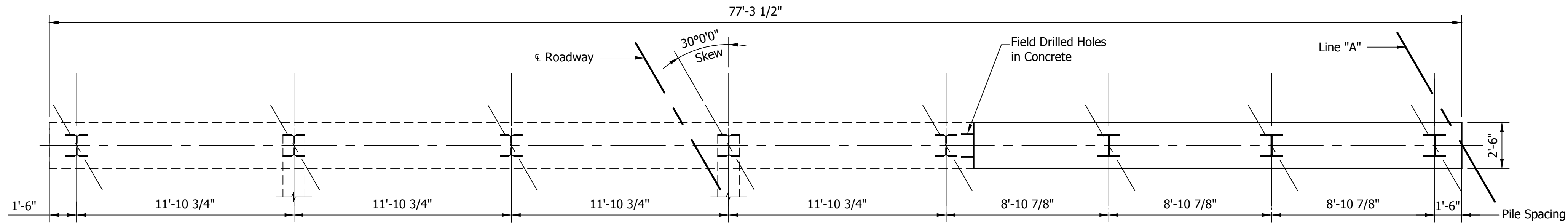
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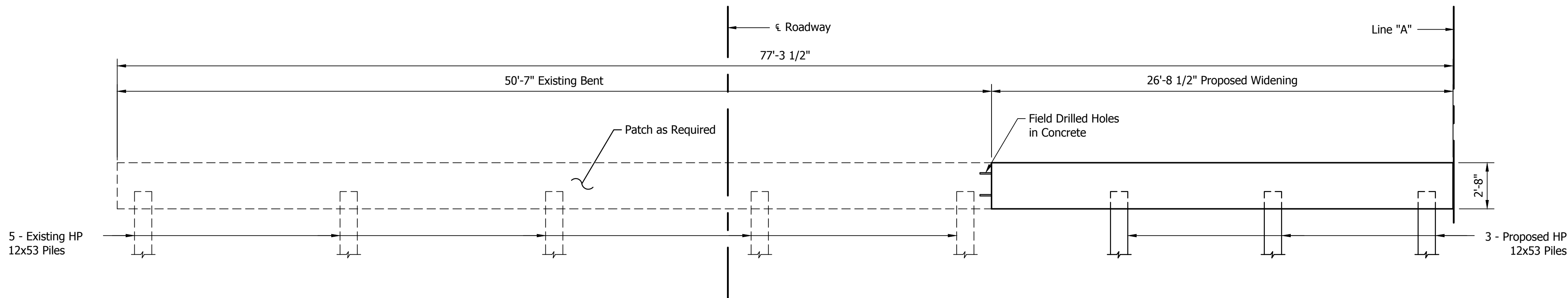
GENERAL PLAN  
I-65 OVER BRANCH MUTTON CREEK DITCH

HORIZONTAL SCALE	BRIDGE FILE		
AS SHOWN	I65-052-04255 CNBL & JCSBL		
VERTICAL SCALE	DESIGNATION		
AS SHOWN	1592538 & 1592536		
SURVEY BOOK	SHEETS		
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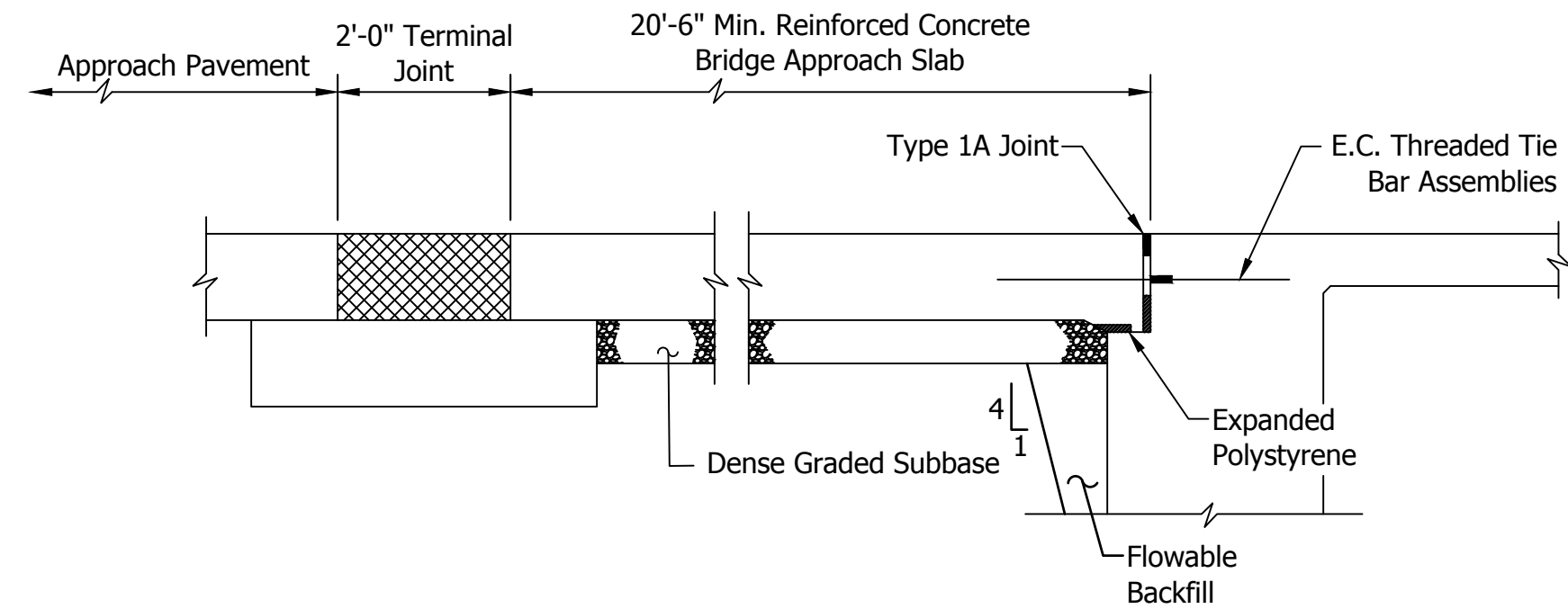
**SOUTHBOUND TYPICAL BENT PLAN**

Scale: 1/4" = 1'-0"  
(Bent 4 shown, Bent 1 same by opposite hand)



**SOUTHBOUND TYPICAL BENT ELEVATION**

Scale: 1/4" = 1'-0"  
(Bent 4 shown, Bent 1 same by opposite hand)



**SECTION**

Scale: 1/2" = 1'-0"



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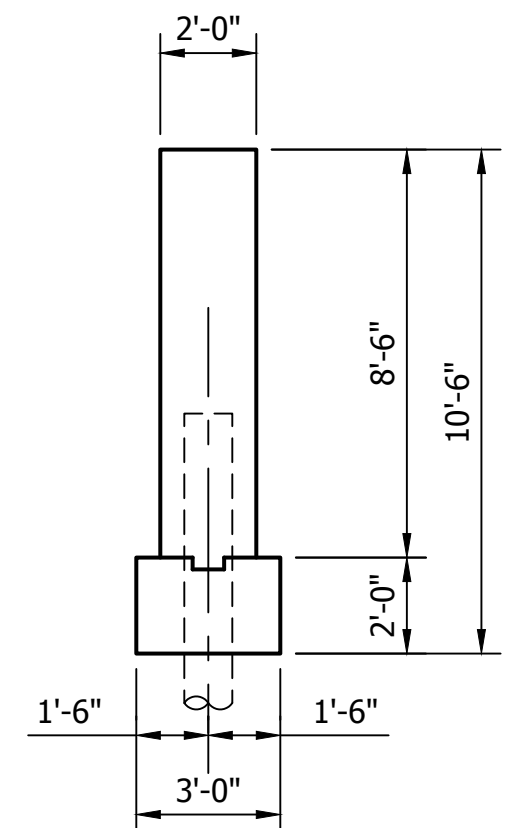
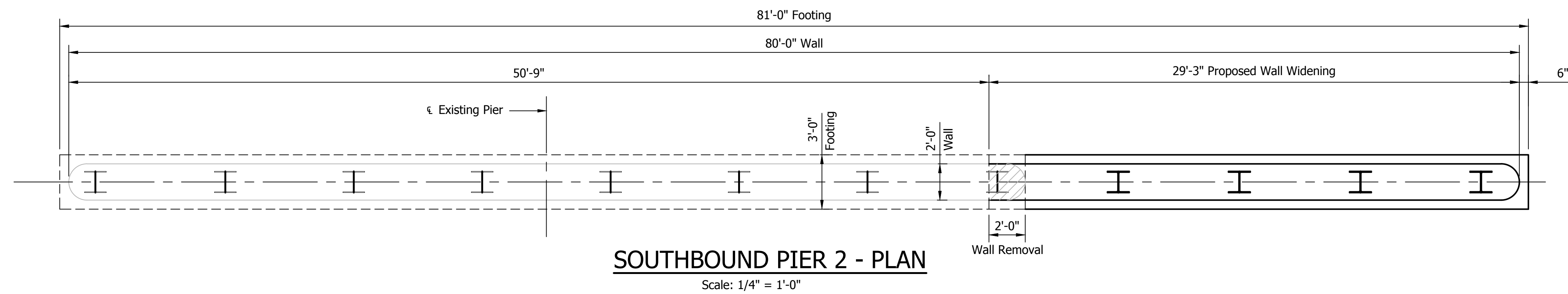
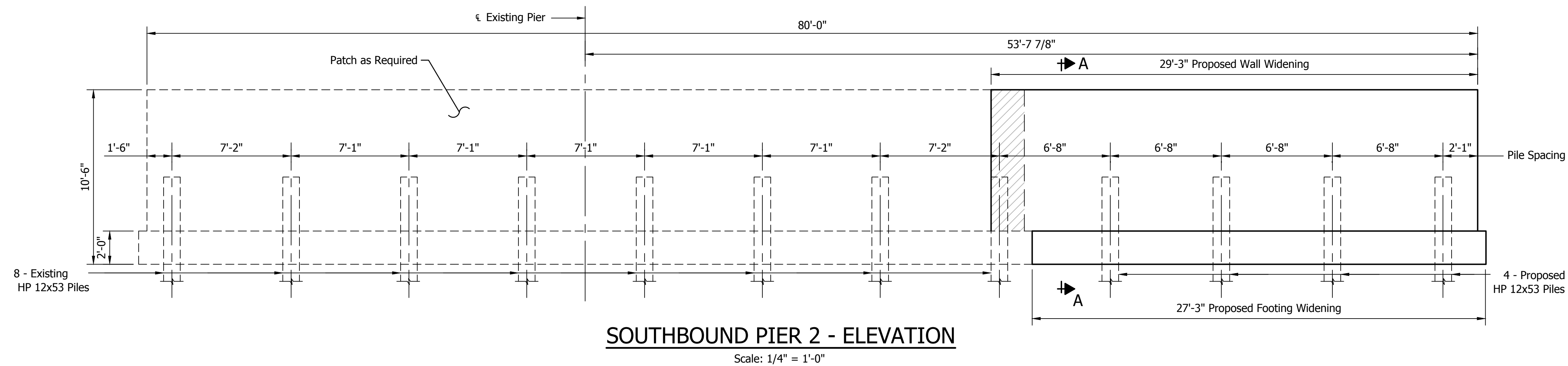
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BENT DETAILS  
I-65 OVER BRANCH MUTTON CREEK DITCH

HORIZONTAL SCALE	BRIDGE FILE		
AS SHOWN	I65-052-04255 CNBL & JCSBL		
VERTICAL SCALE	DESIGNATION		
A SHOWN	1592538 & 1592536		
SURVEY BOOK	SHEETS		
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R-28940	0501212		



 Limits of Removal



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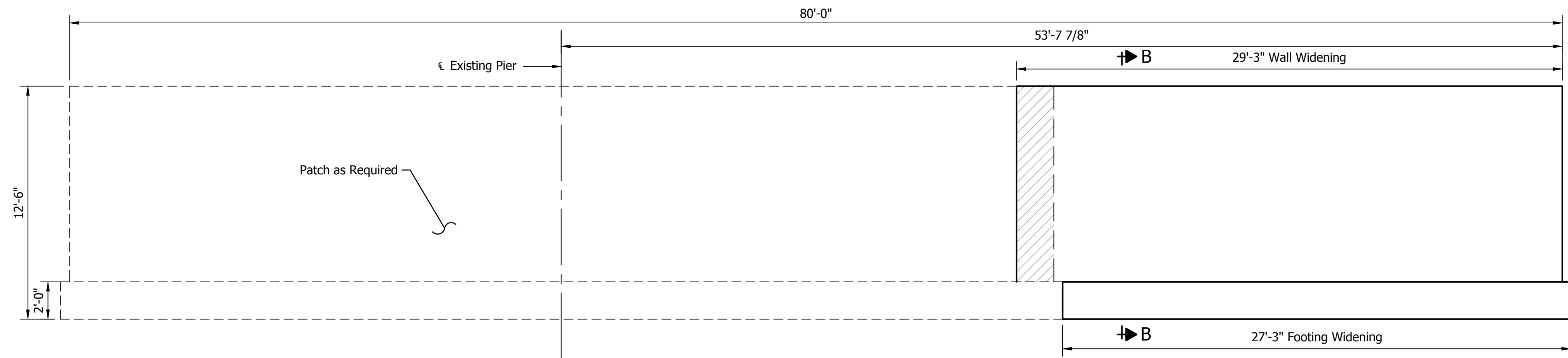
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PIER DETAILS  
I-65 OVER BRANCH MUTTON CREEK DITCH

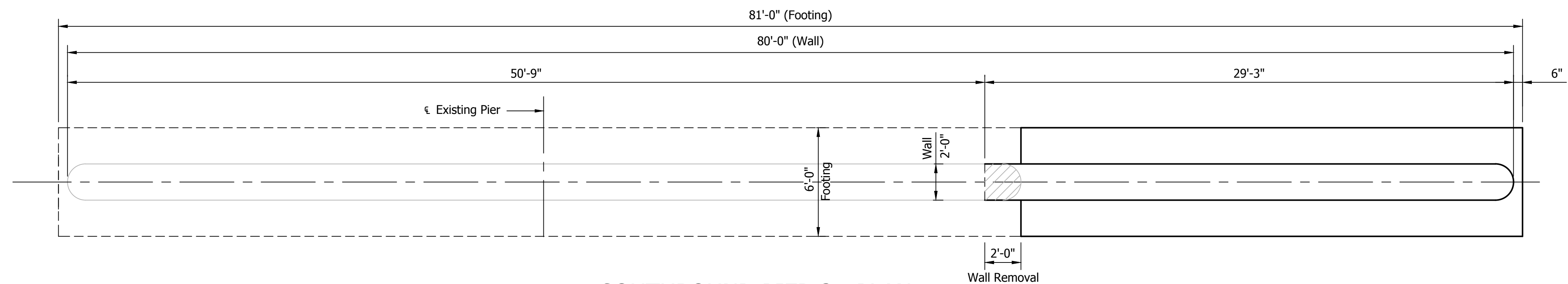
HORIZONTAL SCALE	BRIDGE FILE		
AS SHOWN	I65-052-04255 CNBL & JCSBL		
VERTICAL SCALE	DESIGNATION		
AS SHOWN	1592538 & 1592536		
SURVEY BOOK	SHEETS		
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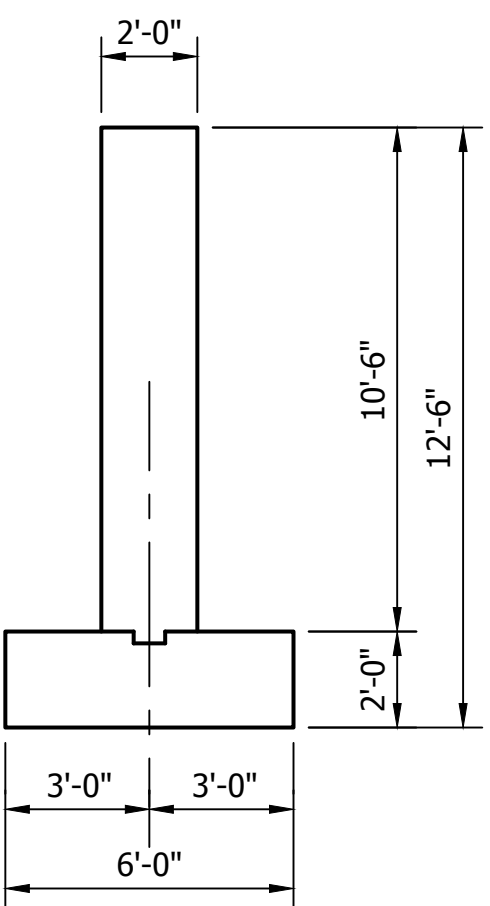
**SOUTHBOUND PIER 3 - ELEVATION**

Scale: 1/4" = 1'-0"



**SOUTHBOUND PIER 3 - PLAN**

Scale: 1/4" = 1'-0"



**SECTION B-B**

Scale: 1/4" = 1'-0"

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PIER DETAILS  
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VERTICAL SCALE	DESIGNATION		
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SUMMARY OF BRIDGE QUANTITIES																																
ITEM	CONCRETE			CONCRETE RAILING CLASS C	REINF. BARS	EPOXY COATED REINF. BARS	STRUCT. STEEL	ANCHOR PLATES MK-AP	PILES												AGGREGATE FOR END BENT BACKFILL	CAST IRON GRATES, BASINS,& FITTINGS	EXP. JOINT TYPE "SS"	CONCRETE BARRIER RAIL TRANS. TYPE "WGB"	CONC.STR.MEMBERS		BARRIER DELINEATORS	SURFACE SEAL **	MASONRY COATING **	MODIFIED EPOXY COATED THREADED BAR ASSEMBLIES	R.C. PAVEMENT 14 Inch	DENSE GRADED SUBBASE 6 Inch
	CLASS C	CLASS A	CLASS B						CONC. STEEL SHELL ENCASED	REINF. CONC. STEEL SHELL ENCASED	HP12x74 STEEL "H"	STEEL H EPOXY COATED	STEEL H REINF. CONC. ENCASED	PILE TIP STEEL H	CORED HOLES IN ROCK	BOX BEAMS	I BEAM															
	SUPERSTR	SUBSTR	IN FTG.						no.	lft.	no.	lft.	no.	lft.	no.	lft.	no.	lft.	each	no.					lft.	cys.						
	cys.	cys.	cys.	cys.	lft.	lbs.	lbs.	lbs.	each	no.	lft.	no.	lft.	no.	lft.	no.	lft.	each	no.	lft.	cys.	lbs.	lft.	ea.	lft.	lft.	each	sys.	sys.	each	lft.	lbs.



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CHECKED: <u>BSF</u>	CHECKED: <u>MRL</u>

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<p style="text-align: center;">BRIDGE SUMMARY TABLE</p> <p style="text-align: center;">I-65 OVER BRANCH MUTTON CREEK DITCH</p>
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HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-052-04255 CNBL & JCSBL
VERTICAL SCALE	DESIGNATION
N/A	1592538 & 1592536

SURVEY BOOK	SHEETS		
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